CLAIMS

WHAT IS CLAIMED IS:

An abdominal exercise machine for exercising abdominal muscles, comprising
 an upper member and a lower member, said upper member and said lower member
 comprising generally extending members;

a semi-rigid member providing a range of bending force, said semi-rigid member coupled to said upper member and said lower member;

whereby feedback is provided when a predetermined abdominal exercise is performed.

 An abdominal exercise machine as set forth in claim 1, wherein said generally extending members of said upper member separate by a range from 0-180 degrees;

said upper member further comprises an engagement member; and said semi-rigid member coupled to said lower member by a pivoting joint.

- 3. An abdominal exercise machine as set forth in claim 2, wherein said semi-rigid member securely coupled to said upper member; and said semi-rigid member securely coupled to said pivoting joint.
- 4. An abdominal exercise machine as set forth in claim 2, wherein said semi-rigid member detachably attachable to said upper member; and said semi-rigid member detachably attachable to said pivoting joint.

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- 5. An abdominal exercise machine as set forth in claim 1, wherein said semi-rigid member coupled to said upper member by upper attachment means; and said semi-rigid member coupled to said lower member by lower attachment means.
- 6. An abdominal exercise machine as set forth in claim 5, wherein said generally extending members of said upper member are curved; and said generally extending members of said lower member include padded rollers.
- 7. An abdominal exercise machine as set forth in claim 6, wherein said semi-rigid member securely coupled to said upper attachment means and said lower attachment means.
- 8. An abdominal exercise machine as set forth in claim 6, wherein said semi-rigid member detachably attachable to said upper attachment means and said lower attachment means.
- An abdominal exercise machine as set forth in claim 5, wherein
 said generally extending members of said upper member comprise rotatable handgrips.
- 10. An abdominal exercise machine as set forth in claim 9, wherein said semi-rigid member securely coupled to said upper attachment means and said lower attachment means.

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- 11. An abdominal exercise machine as set forth in claim 9, wherein said semi-rigid member detachably attachable to said upper attachment means and said lower attachment means.
- 12. An abdominal exercise machine as set forth in claim 5, wherein said upper attachment means comprising a flex joint.
- 13. An abdominal exercise machine as set forth in claim 12, wherein said semi-rigid member securely coupled to said upper attachment means and said lower attachment means.
- 14. An abdominal exercise machine as set forth in claim 12, wherein said semi-rigid member detachably attachable to said upper attachment means and said lower attachment means.
- 15. An abdominal exercise machine as set forth in claim 5, wherein said lower attachment means comprising a pivot joint providing a pivot motion along the axis of said semi-rigid member.
- An abdominal exercise machine as set forth in claim 15, wherein said semi-rigid member coupled to said pivot joint by a flex joint and a plurality of bolts.
- 17. An abdominal exercise machine as set forth in claim 15, wherein

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said semi-rigid member securely coupled to said upper attachment means and said lower attachment means.

- 18. An abdominal exercise machine as set forth in claim 15, wherein said semi-rigid member detachably attachable to said upper attachment means and said lower attachment means.
- 19. An abdominal exercise machine as set forth in claim 5, wherein said lower attachment means comprising a pivot joint providing a combination of a pivot motion along the axis of said semi-rigid member and a rotational pivoting motion.
- 20. An abdominal exercise machine as set forth in claim 19, wherein said semi-rigid member coupled to said pivot joint by a flex joint and a plurality of bolts.
- 21. An abdominal exercise machine as set forth in claim 19, wherein said semi-rigid member securely coupled to said upper attachment means and said lower attachment means.
- 22. An abdominal exercise machine as set forth in claim 19, wherein said semi-rigid member detachably attachable to said upper attachment means and said lower attachment means.
- 23. An abdominal exercise machine as set forth in claim 5, wherein

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said lower attachment means comprising a ball joint having a ball joint assembly, a ball joint cover and an opening;

said semi-rigid member coupled to said ball joint via said opening of said ball joint assembly; and

said ball joint allowing for a side to side as well as a front to back motion of said semirigid member.

24. An abdominal exercise machine as set forth in claim 23, wherein

said generally extending members of said upper member being substantially parallel to said lower member.

25. An abdominal exercise machine as set forth in claim 23, wherein

said semi-rigid member securely attachable to said upper attachment means and said lower attachment means.

26. An abdominal exercise machine as set forth in claim 23, wherein

said semi-rigid member detachably attachable to said upper attachment means and said lower attachment means

27. An abdominal exercise machine for exercising abdominal muscles, comprising

an upper member and a lower member, said upper member and said lower member comprising generally extending members;

- a plurality of semi-rigid members providing a range of bending force, said plurality of semi-rigid members coupled to said upper member and said lower member;
 - whereby feedback is provided when a predetermined abdominal exercise is performed.
- 28. An abdominal exercise machine as set forth in claim 27, wherein said generally extending members of said upper member are curved.
- 29. An abdominal exercise machine as set forth in claim 27, wherein said semi-rigid member securely coupled to said upper attachment means and said lower attachment means.
- 30. An abdominal exercise machine as set forth in claim 27, wherein said semi-rigid member detachably attachable to said upper attachment means and said lower attachment means.
- 31. An abdominal exercise machine comprising,
 - a top member;
 - a lower member;
 - said top member and said lower member comprising generally extending members;
- a hinged-rigid member, said hinged-rigid member coupled to said lower member and said top member;
 - an elastic member, said elastic member coupled to said hinged-rigid member; whereby feedback is provided when a predetermined abdominal exercise is performed.

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- 32. An abdominal exercise machine as set forth in claim 31, wherein said top member having length adjustment means; and said elastic member detachably attachable to said hinged-rigid member.
- An abdominal exercise machine for exercising abdominal muscles, comprising:
 means for engaging an upper body portion;
 means for engaging a lower body portion; and

semi-rigid means for flexibly resisting compression, said semi-rigid means coupling said upper body engaging means and said lower body engaging means, said semi-rigid means spanning abdominal muscles for exercise thereof;

whereby abdominal muscles are exercised when said semi-rigid means undergoes compression when said upper body portion is brought towards said lower body portion and feedback is provided during a predetermined abdominal exercise.

- An abdominal exercise machine for exercising abdominal muscles, comprising:
 means for engaging an upper body portion;
 means for engaging a lower body portion; and
- biased elastic hinged-rigid means for resiliently resisting compression, said biased hinged-rigid means coupling said upper body engaging means and said lower body engaging means, said biased hinged-rigid means spanning abdominal muscles for exercise thereof;

elastic means for biasing said hinged-rigid means, said elastic means coupled to said hinged-rigid means;

whereby abdominal muscles are exercised when said biased hinged-rigid means undergoes compression when said upper body portion is brought towards said lower body portion and feedback is provided during a predetermined abdominal exercise.